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1	3089	genetic near3 algorithm	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/11/17 09:57
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5	898	tree near3 operator	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/11/17 09:07
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8	6	(xml or (extensible near markup near language)) and ((genetic near2 search) near2 algorithm)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/11/17 09:08
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10	481	(genetic near3 algorithm) and (search and internet)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/11/17 09:08
11	18	((706/13).CCLS.) and ((genetic near3 algorithm) and (search and internet))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/11/17 09:09
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16	69	((genetic near3 algorithm) and (xml or (extensible near markup near language))) and (interface or GUI)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/11/17 09:51
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18	124	((genetic near2 search) near2 algorithm) and (interface or GUI)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2003/11/17 09:57
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21	1	((xml or (extensible near markup near language)) and ((genetic near2 search) near2 algorithm)) not ((xml or (extensible near markup near language)) and (((genetic near2 search) near2 algorithm) and (interface or GUI)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2003/11/17 10:01
-	1841	genetic near3 algorithm	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2003/11/17 09:07
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Research

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A JIT(Just In Time) Compiler for Microsoft .NET CLR(Common Language Runtime) on IA-64 (ongoing)

Gowri Kumar CH, MSc(Engg)

Microsoft's .NET Framework is a multiple programming language environment for building, deploying, and running XML Web services and other applications. At the heart of the .NET Framework is the CLR(Common Language Runtime), which makes it much easier for programmers to write good, robust code quickly, and to manage, deploy and revise the code. The programs and components that you write execute in this runtime. CLR provides programmers with cool runtime features such as automatic memory management(garbage collection) type safety etc..

All the code written in different higher programming languages like C#, VC++, VB.NET etc are all converted into MSIL(Microsoft Intermediate Language). The CLR has to compile just-in-time this MSIL into native code and execute.

The IA-64 Itanium processor is Intel's next-generation high-performance 64-bit CPU based on the Explicitly Parallel Instruction Computing(EPIC) architecture. The EPIC architecture, is an Instruction Level Parallelism(ILP) architecture where the compiler collects many very simple machine instructions into a single long instruction word, where executing the long instruction word results in the execution of all the simple instructions in parallel.

A JIT compiler for an EPIC architecture must not only do register allocation, but also instruction scheduling when compiling bytecode to EPIC instructions.

We would like to develop a JIT compilation algorithm for EPIC architectures and will be attempting to apply this to the IA-64.

Design and Implementation of a Genetic Algorithm Based Automatic Data Partitioning Scheme for HPF on a Linux Cluster (ongoing)

Sunil Kumar Anand, MSc(Engg)

High Performance Fortran (HPF) allows a user to specify data distribution across processors with some directives and an HPF compiler compiles such a program into an SPMD code.

Compilation strategy based on the owner computes rule is very popular. Data distribution specifications are translated into mathematical distribution functions that determine the ownership of local data. Different loop nests in the input Fortran program will work more efficiently with different distributions. So to extract parallelism available, redistribution of data needs to be done.

Automatic Data Distribution is one of the most crucial issues in the parallelization of programs for distributed memory message passing parallel machines. This project uses Hierarchical Genetic Search Algorithm (HGS) to provide the solution to automatic data distribution problem. The term hierarchical is used because a bottom-up (from the loop level to program level) analysis and application of genetic algorithm(GA) is done.

HGS is applied at the intra-chain level, intra-procedural level and inter-procedural level.

Code generation and Optimization for Clustered VLIW DSP Processors(ongoing)

Rahul Nagpal, MSc(Engg)

We are currently looking at code generation and optimization in context of VLIW DSP Processors. The major research objectives are

1. Exploiting the support provided by recent VLIW and Clustered VLIW architecture like TMS320C6X and Phillips Trimedia for code optimization.
2. Analyzing the existing algorithms in context of Clustered VLIW Processors. Specifically the effect of Scheduling algorithms on register allocation, Code size and Power consumption.
3. Developing new algorithms that resolve the trade off as per the requirements of a particular Application.

Profile-guided optimizations for a .NET JIT compiler (ongoing)

Kapil Vaswani, MSc(Engg)

This research is being carried out as part of a larger Microsoft sponsored project involving the development of the Common Language Runtime and JIT compiler for the Microsoft .NET framework targeting Linux, already underway at the compiler lab department of CSA.

This research has been initiated with the following objectives:

Incorporating an extensible framework that can support multiple types of profiling systems into the CLR. The requirement for both hardware and software based profiling systems arises due to the fact that different optimizations require profile data of varying granularity. While software profilers can provide fine-grained information about regions of code, they are associated with high overheads. On the other hand, hardware based techniques such as sampling based on hardware counters have low overheads but may not be able to cater to the requirements of some of the proposed optimizations.

Implement and evaluate the applicability of some of the more interesting profiling methods proposed in literature to a JIT compiler. Recent architectures such as IA-64 provide extensive hardware resources specifically for evaluating and monitoring the performance of applications. The research aims at finding ways in which information from such resources can be used in a dynamic recompilation environment.

Identify specific features of the .NET framework that can benefit from the availability of online profile information. One such instance where the research proposes to use profile information is efficient code generation for exception handlers.

Gain a deeper understanding into the trade-offs involved in the implementation of profile-guided optimizations in a JIT compiler. We propose to implement profile-guided method inlining, dynamic code and object layout and loop unrolling as part of the multi-level recompilation framework. However, we also plan to use the framework to investigate the applicability and effectiveness of advanced techniques such as profile-guided partial method compilation and dead code elimination as part of the research.

A concurrent garbage collector for .NET common language runtime JIT compiler (ongoing)

Archana Ravindar, MSc(Engg)

The garbage collector is an important component in the CLR of the Microsoft .NET framework.

One of the most important parameters the end user is concerned with is the overhead associated with collection which can take the form of program slow down or long pauses when collection is going on, we are working on a concurrent garbage collector that does collection work without much overhead and at the same time does not pause the program for long periods of time.

A prototype is in place which uses the Nittles and O'Tooles copying strategy as the algorithm. We are currently implementing the GC interface to the Rotor system so that we will be able to test the GC in a much more fullfledged manner, and also look at ways of improving the performance of the collector even further.

References

Component Technology in Embedded Systems (ongoing)

Sujit Kumar Chakrabarti, PhD Student

Component technology has started being taken seriously in the domain of embedded systems. The reasons are: increased hardware power, increased system complexity, and demands for lower time-to-market. However, the embedded software system requirements are different in many ways from those of normal software systems. There are many issues apart from having stronger demands of optimised resource utilisation. Since most embedded systems are also real-time systems in some way, issues like scheduling, load balancing, deadline meeting, throughput etc. are more fundamental than in other kinds of systems. Also, in case of distributed embedded systems, questions of fault-tolerance and synchronisation are of primary concern.

We target the following three problems in this research.

1. Language for Real-Time Specification for Components

One aim of this work is to explore the problem of developing a language which has ways of codifying such specs into the software components so that it can be made sure that they will be met. A user of the component gets a priori assurance that the above QoS requirements of his system will be met when he builds his system with the ready made components.

2. Language for Framework Integration

Software components are often built over some model of computations. A component software may use many heterogeneous components based on various models of computations, possibly incompatible. We aim at developing a component specification language that would make explicit, the model of computation requirements of a component, rendering it possible to facilitate more compatible components through standardised implementation.

3. Component Level Optimisations

Our final aim is to explore the problem of performing optimisations at the component level to meet the various requirement specifications of embedded systems. This may include merging or splitting of components, transforming one model of computation to another etc. All this may also ask for a uniform component specification language that not only explicates the requirement specification into the interface of the component, but also provides ways of implementing the same. The implementation must be in such a way that transformation of computation-models can possibly be applied to the code. The problem consists of coming up with an intermediate language expressive enough to allow such bold design transformations.

This problem essentially subsumes the above two problems.



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1 [Access control: XML access control using static analysis](#)

Makoto Murata, Akihiko Tozawa, Michiharu Kudo, Satoshi Hada

 October 2003 **Proceedings of the 10th ACM conference on Computer and communication security**

 Full text available: [pdf\(357.99 KB\)](#)

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Access control policies for XML typically use regular path expressions such as XPath for specifying the objects for access control policies. However such access control policies are burdens to the engines for XML query languages. To relieve this burden, we introduce static analysis for XML access control. Given an access control policy, query expression, and an optional schema, static analysis determines if this query expression is guaranteed not to access elements or attributes that are permitted ...

Keywords: XML, XPath, XQuery, access control, automaton, query optimization, schema, static analysis

2 [Development of SNMP-XML translator and gateway for XML-based integrated network management](#)

Jeong-Hyuk Yoon, Hong-Taek Ju, James W. Hong

 July 2003 **International Journal of Network Management**, Volume 13 Issue 4

 Full text available: [pdf\(251.82 KB\)](#)

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The research objective of our work is to develop a SNMP MIB to XML translation algorithm and to implement an SNMP-XML gateway using this algorithm. The gateway is used to transfer management information between an XML-based manager and SNMP-based agents. SNMP is widely used for Internet management, but SNMP is insufficient to manage continuously expanding networks because of constraints in scalability and efficiency. XML based network management architectures are newly proposed as alternatives to ...

3 [Database & data management: Digital asset management using a native XML database implementation](#)

Shalaka Natu, John Mendonca

 October 2003 **Proceeding of the 4th conference on information technology curriculum on Information technology education**

 Full text available: [pdf\(196.63 KB\)](#)

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Digital Asset Management (DAM), the management of digital content so that it can be cataloged, searched and re-purposed, is extremely challenging for organizations that rely on image handling and expect to gain business value from these assets. Metadata plays a crucial role in their management, and XML, with its inherent support for structural representation, is an ideal technology for this. This paper analyzes the capabilities of a native XML database solution via the development of a "proof of ...

Keywords: DAM, XML database, digital asset management, digital images

4 [CDuce: an XML-centric general-purpose language](#)

Véronique Benzaken, Giuseppe Castagna, Alain Frisch

 August 2003 **ACM SIGPLAN Notices , Proceedings of the eighth ACM SIGPLAN international conference on Functional programming**, Volume 38 Issue 9

 Full text available: [pdf\(242.16 KB\)](#)

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We present the functional language CDuce, discuss some design issues, and show its adequacy for working with XML documents. Distinctive features of CDuce are a powerful pattern matching, first class functions, overloaded functions, a very rich type system (arrows, sequences, pairs, records, intersections, unions, differences), precise type inference for patterns and error localization, and a natural interpretation of types as sets of values. We also outline some important implementation issues ...

Keywords: CDuce, XML, XML-processing, type systems

5 [XML query processing II: A comprehensive XQuery to SQL translation using dynamic interval encoding](#)

David DeHaan, David Toman, Mariano P. Consens, M. Tamer Özsu

 June 2003 **Proceedings of the 2003 ACM SIGMOD international conference on Management of data**

 Full text available: [pdf\(242.20 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The W3C XQuery language recommendation, based on a hierarchical and ordered document model, supports a wide variety of constructs and use cases. There is a diversity of approaches and strategies for evaluating XQuery expressions, in many cases only dealing with limited subsets of the language. In this paper we describe an implementation approach that handles XQuery with arbitrarily-nested FLWR expressions, element constructors and built-in functions (including structural comparisons). Our proposal ...

6 XML query processing I: Dynamic XML documents with distribution and replication

Serge Abiteboul, Angela Bonifati, Grégory Cobéna, Ioana Manolescu, Tova Milo

June 2003 **Proceedings of the 2003 ACM SIGMOD international conference on on Management of data**Full text available: [pdf\(209.06 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The advent of XML as a universal exchange format, and of Web services as a basis for distributed computing, has fostered the apparition of a new class of documents: *dynamic XML documents*. These are XML documents where some data is given explicitly while other parts are given only intensionally by means of embedded calls to web services that can be called to generate the required information. By the sole presence of Web services, dynamic documents already include inherently some form of di ...

7 XML query processing I: Composing XSL transformations with XML publishing views

Chengkai Li, Philip Bohannon, P. P. S. Narayan

June 2003 **Proceedings of the 2003 ACM SIGMOD international conference on on Management of data**Full text available: [pdf\(225.65 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

While the XML Stylesheet Language for Transformations (XSLT) was not designed as a query language, it is well-suited for many query-like operations on XML documents including selecting and restructuring data. Further, it actively fulfills the role of an XML query language in modern applications and is widely supported by application platform software. However, the use of database techniques to optimize and execute XSLT has only recently received atten ...

8 Streaming XML: XPath queries on streaming data

Feng Peng, Sudarshan S. Chawathe

June 2003 **Proceedings of the 2003 ACM SIGMOD international conference on on Management of data**Full text available: [pdf\(433.73 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present the design and implementation of the XSQ system for querying streaming XML data using XPath 1.0. Using a clean design based on a hierarchical arrangement of pushdown transducers augmented with buffers, XSQ supports features such as multiple predicates, closures, and aggregation. XSQ not only provides high throughput, but is also memory efficient: It buffers only data that must be buffered by any streaming XPath processor. We also present an empirical study of the performance character ...

9 Streaming XML: Stream processing of XPath queries with predicates

Ashish Kumar Gupta, Dan Suciu

June 2003 **Proceedings of the 2003 ACM SIGMOD international conference on on Management of data**Full text available: [pdf\(464.60 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We consider the problem of evaluating large numbers of XPath filters, each with many predicates, on a stream of XML documents. The solution we propose is to lazily construct a single deterministic pushdown automata, called the *XPush Machine* from the given XPath filters. We describe a number of optimization techniques to make the lazy XPush machine more efficient, both in terms of space and time. The combination of these optimizations results in high, sustained throughput. For example, if ...

10 Data integration and sharing I: Exchanging intensional XML data

Tova Milo, Serge Abiteboul, Bernd Amann, Omar Benjelloun, Fred Dang Ngoc

June 2003 **Proceedings of the 2003 ACM SIGMOD international conference on on Management of data**Full text available: [pdf\(237.21 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

XML is becoming the universal format for data exchange between applications. Recently, the emergence of Web services as standard means of publishing and accessing data on the Web introduced a new class of XML documents, which we call *intensional* documents. These are XML documents where some of the data is given explicitly while other parts are defined only intensionally by means of embedded calls to Web services. When such documents are exchanged between applications, one has the choice to ...

11 XML indexing and compression: Containment join size estimation: models and methods

Wei Wang, Haifeng Jiang, Hongjun Lu, Jeffrey Xu Yu

June 2003 **Proceedings of the 2003 ACM SIGMOD international conference on on Management of data**Full text available: [pdf\(301.92 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Recent years witnessed an increasing interest in researches in XML, partly due to the fact that XML has now become the *de facto* standard for data interchange over the internet. A large amount of work has been reported on XML storage models and query processing techniques. However, few works have addressed issues of XML query optimization. In this paper, we report our study on one of the challenges in XML query optimization: containment join size estimation. Containment join is well accept ...

12 XML indexing and compression: XPRESS: a queriable compression for XML data

Jun-Ki Min, Myung-Jae Park, Chin-Wan Chung

June 2003 **Proceedings of the 2003 ACM SIGMOD international conference on on Management of data**Full text available: [pdf\(277.17 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Like HTML, many XML documents are resident on native file systems. Since XML data is irregular and verbose, the disk space and the network bandwidth are wasted. To overcome the verbosity problem, the research on compressors for XML data has been conducted. However, some XML compressors do not support querying compressed data, while other XML compressors which support querying compressed data blindly encode tags and data values using predefined encoding methods. Thus, the query performance on com ...

13 XML indexing and compression: ViST: a dynamic index method for querying XML data by tree structures

Haixun Wang, Sanghyun Park, Wei Fan, Philip S. Yu

June 2003 **Proceedings of the 2003 ACM SIGMOD international conference on on Management of data**Full text available: [pdf\(244.47 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

With the growing importance of XML in data exchange, much research has been done in providing flexible query facilities to extract data from structured XML documents. In this paper, we propose ViST, a novel index structure for searching XML documents. By representing both XML documents and XML queries in structure-encoded sequences, we show that querying XML data is equivalent to finding subsequence matches. Unlike index methods that disassemble a query into multiple sub-queries, and then *join* ...

14 XML and text: XRANK: ranked keyword search over XML documents

Lin Guo, Feng Shao, Chavdar Botev, Jayavel Shanmugasundaram

June 2003 **Proceedings of the 2003 ACM SIGMOD international conference on on Management of data**

Full text available: [pdf\(265.38 KB\)](#)

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We consider the problem of efficiently producing ranked results for keyword search queries over hyperlinked XML documents. Evaluating keyword search queries over hierarchical XML documents, as opposed to (conceptually) flat HTML documents, introduces many new challenges. First, XML keyword search queries do not always return entire documents, but can return deeply nested XML elements that contain the desired keywords. Second, the nested structure of XML implies that the notion of ranking is no l ...

15 XML and text: Querying structured text in an XML database

Shurug Al-Khalifa, Cong Yu, H. V. Jagadish

June 2003 **Proceedings of the 2003 ACM SIGMOD international conference on on Management of data**

Full text available: [pdf\(242.55 KB\)](#)

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XML databases often contain documents comprising structured text. Therefore, it is important to integrate "information retrieval style" query evaluation, which is well-suited for natural language text, with standard "database style" query evaluation, which handles structured queries efficiently. Relevance scoring is central to information retrieval. In the case of XML, this operation becomes more complex because the data required for scoring could reside not directly in an element itself but als ...

16 Structured documents: Searching XML documents via XML fragments

David Carmel, Yoelle S. Maarek, Matan Mandelbrod, Yosi Mass, Aya Soffer

July 2003 **Proceedings of the 26th annual international ACM SIGIR conference on Research and development in informaion retrieval**

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Most of the work on XML query and search has stemmed from the publishing and database communities, mostly for the needs of business applications. Recently, the Information Retrieval community began investigating the XML search issue to answer information discovery needs. Following this trend, we present here an approach where information needs can be expressed in an approximate manner as pieces of XML documents or "XML fragments" of the same nature as the documents that are being searched. We pr ...

Keywords: XML fragments, XML search & retrieval, vector space model

17 Standards: XML schema

Charles E. Campbell, Andrew Eisenberg, Jim Melton

June 2003 **ACM SIGMOD Record**, Volume 32 Issue 2

Full text available: [pdf\(397.29 KB\)](#)

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18 XML in the CS curriculum: pointers and pitfalls

John Paxton

December 2001 **The Journal of Computing in Small Colleges**, Volume 17 Issue 2

Full text available: [pdf\(23.95 KB\)](#)

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This paper introduces an XML seminar that our computer science department offered for the first time in the fall of 2000. XML is an important technology that appears to be HTML's successor. HTML is not the most elegant markup language in that: (1) it does not allow the user to extend the language and (2) it does not force the user to separate logical data from formatting data. XML overcomes these limitations. There are two major contributions of this paper. First, the paper provides a starting po ...

19 Open hypermedia and the web: The XML web: a first study

Laurent Mignnet, Denilson Barbosa, Pierangelo Veltri

May 2003 **Proceedings of the twelfth international conference on World Wide Web**

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Although originally designed for large-scale electronic publishing, XML plays an increasingly important role in the exchange of data on the Web. In fact, it is expected that XML will become the lingua franca of the Web, eventually replacing HTML. Not surprisingly, there has been a great deal of interest on XML both in industry and in academia. Nevertheless, to date no comprehensive study on the XML Web (i.e., the subset of the Web made of XML documents only) nor on its contents has been made. Th ...

Keywords: XML documents, XML web, statistical analysis, structural properties

20 Compilers I: Compiler support for efficient processing of XML datasets

Xiaogang Li, Renato Ferreira, Gagan Agrawal

June 2003 **Proceedings of the 17th annual international conference on Supercomputing**

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Declarative, high-level, and/or application-class specific languages are often successful in easing application development. In this paper, we report our experiences in compiling a recently developed XML Query Language, XQuery for applications that process scientific datasets. Though scientific data processing applications can be conveniently represented in XQuery, compiling them to achieve efficient execution involves a number of challenges. These are, 1) analysis of recursive functions to ident ...



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Building an information system from the Web

Fuchs, M.

Walt Disney Imagineering, Glandale, CA;

*This paper appears in: **System Sciences, 1998., Proceedings of the Thirty-First Hawaii International Conference on***

Meeting Date: 01/06/1998 -01/09/1998

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Abstract:

To allow users to truly use the Web to construct personal information systems, users must be able to write their own applications to retrieve, massage, combine, and store information from Web servers. Information providers cannot know all the ways their information can be used; that is determined by the collectivity of users. If users cannot write their own applications, then Web access will remain a tedious and manual process. After describing two small applications we show that the Web architecture, based on HTML, a display-oriented language for describing pictures, does not support client applications very well; the structure and marking of a page does not describe its information in a way easily understood by software. Nevertheless, because the information is mostly textual and was designed to convey that information to a human, it is often possible to retrieve needed information from a page. We describe our implementation, written in Scheme, which queries pages using set predicates, extracts information, and uses that to query further Web pages. Extensions of this approach can combine this information with the clients other local resources. Finally, the same tools are applicable to more sophisticated markup systems, arch as SGML or its Web-oriented offspring XML

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Cheng-Fa Tsai; Hang-Chang Wu;

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Fu, B.; Zhang, S.; Chuang, W.; Dewey, C.F., Jr.;

Engineering in Medicine and Biology Society, 2001. Proceedings of the 23rd Annual International Conference of the IEEE , Volume: 4 , 25-28 Oct. 2001
Page(s): 3696 -3699 vol.4

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Dewey, F.;

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4 An XML application for genomic data interoperability

Kei-Hoi Cheung; Yang Liu; Kumar, A.; Snyder, M.; Gerstein, M.; Miller, P.;

Bioinformatics and Bioengineering Conference, 2001. Proceedings of the IEEE 2nd International Symposium on , 4-6 Nov. 2001
Page(s): 97 -103

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5 GeneCards/spl trade/ 2002: an evolving human gene compendium

Safran, M.; Solomon, I.; Shmueli, O.; Lapidot, M.; Shen-Orr, S.; Adato, A.; Ben-Dor, U.; Esterman, N.; Rosen, N.; Peter, I.; Olender, T.; Chalifa-Caspi, V.; Lancet, D.;

Bioinformatics Conference, 2002. Proceedings. IEEE Computer Society , 14-16 Aug. 2002
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System Sciences, 1997, Proceedings of the Thirtieth Hawaii International
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2 Merging mobile agents, genetic algorithms, and fuzzy logic for intelligent Internet search

Yong-Sheng Ding; Li-Hong Ren;
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3 A GA-based dynamic personalized filtering for Internet search service on multi-search engine

Min-Huang Ho; Ming-Chun Cheng; Yue-Shan Chang; Shyan-Ming Yuan;
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